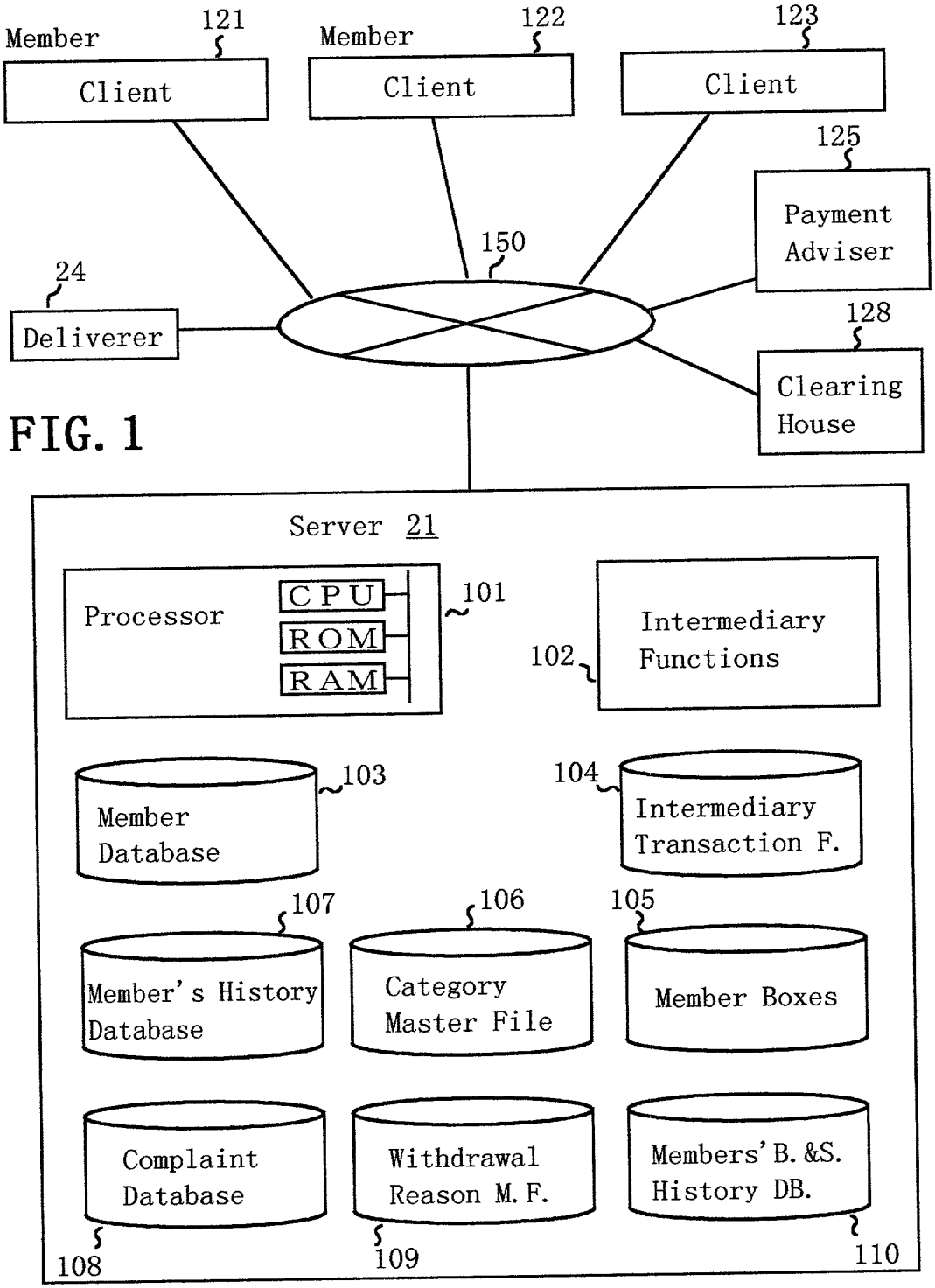
Member
121
Client
Member
122
Client
123
Client
125
Payment Adviser
150
24
Deliverer
128
Clearing House
Server 21
Processor
CPU
ROM
RAM
101
Intermediary Functions
102
Member Database
103
104
Intermediary Transaction F.
107
106
105
Member's History Database
Category Master File
Member Boxes
Complaint Database
Withdrawal Reason M. F.
Members' B. &S. History DB.
108
109
110

FIG. 1

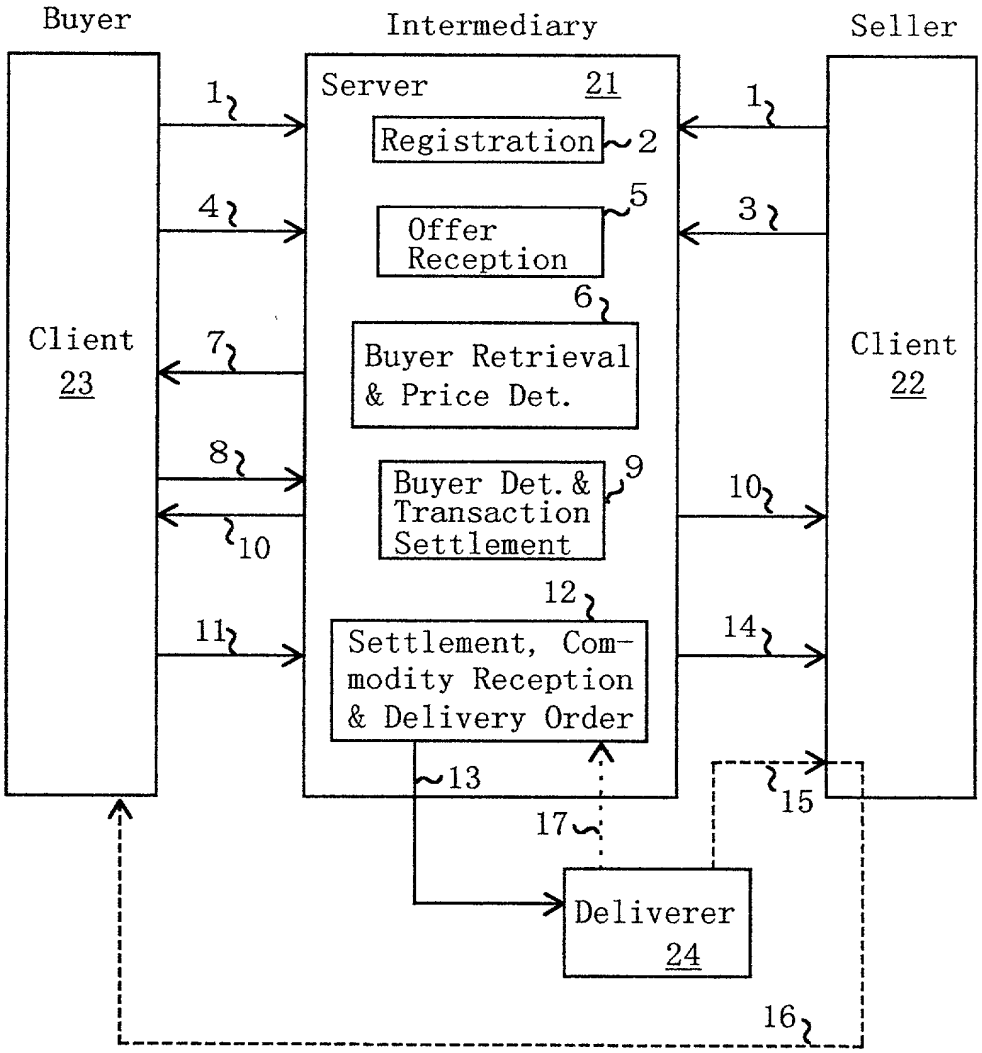
Buyer
Intermediary
Seller
Server 21
Registration
2
Offer Reception
5
Buyer Retrieval & Price Det.
6
Buyer Det. & Transaction Settlement
9
Settlement, Commodity Reception & Delivery Order
12
Client 23
Client 22
Deliverer 24
1
1
4
3
7
8
10
10
11
14
13
15
17
16

FIG. 2

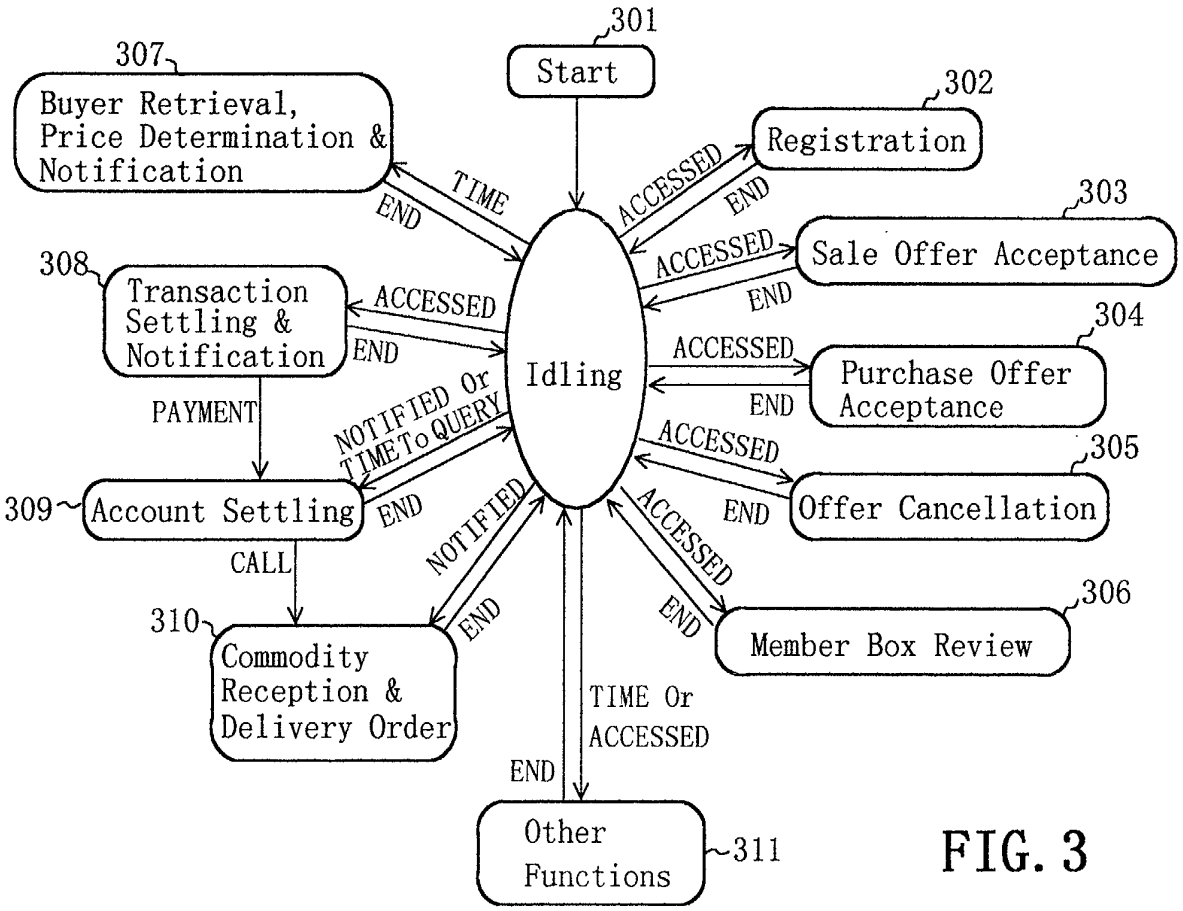
301
Start
307
Buyer Retrieval, Price Determination & Notification
302
Registration
303
Sale Offer Acceptance
304
Purchase Offer Acceptance
305
Offer Cancellation
306
Member Box Review
308
Transaction Settling & Notification
309
Account Settling
310
Commodity Reception & Delivery Order
311
Other Functions
Idling
TIME
END
ACCESSED
END
ACCESSED
END
ACCESSED
END
ACCESSED
END
ACCESSED
END
ACCESSED
END
PAYMENT
NOTIFIED Or TIME To QUERY
END
CALL
NOTIFIED
END
ACCESSED
END
TIME Or ACCESSED
END

FIG. 3

400

Intermediary Processing Menu

Click Item:
Member should Fill Box. No. & Password:
Click "Execute"

1. Member Registration, Correction, Withdrawal (Click One)

11. Member Registration 12. Data Correction 13. Withdrawal

2. Review Member Box
(Notification, Purchase & Sale Offer Watching)

3. Purcahse & Sale Offers, and Cancellation (Click One)

31. Sale Offer 32. Purchase Offer 33. Offer Cancellation

4. Decide Purchase

5. Various Information for Members

Member Box Number: _____
Password: _____

Execute

FIG. 4

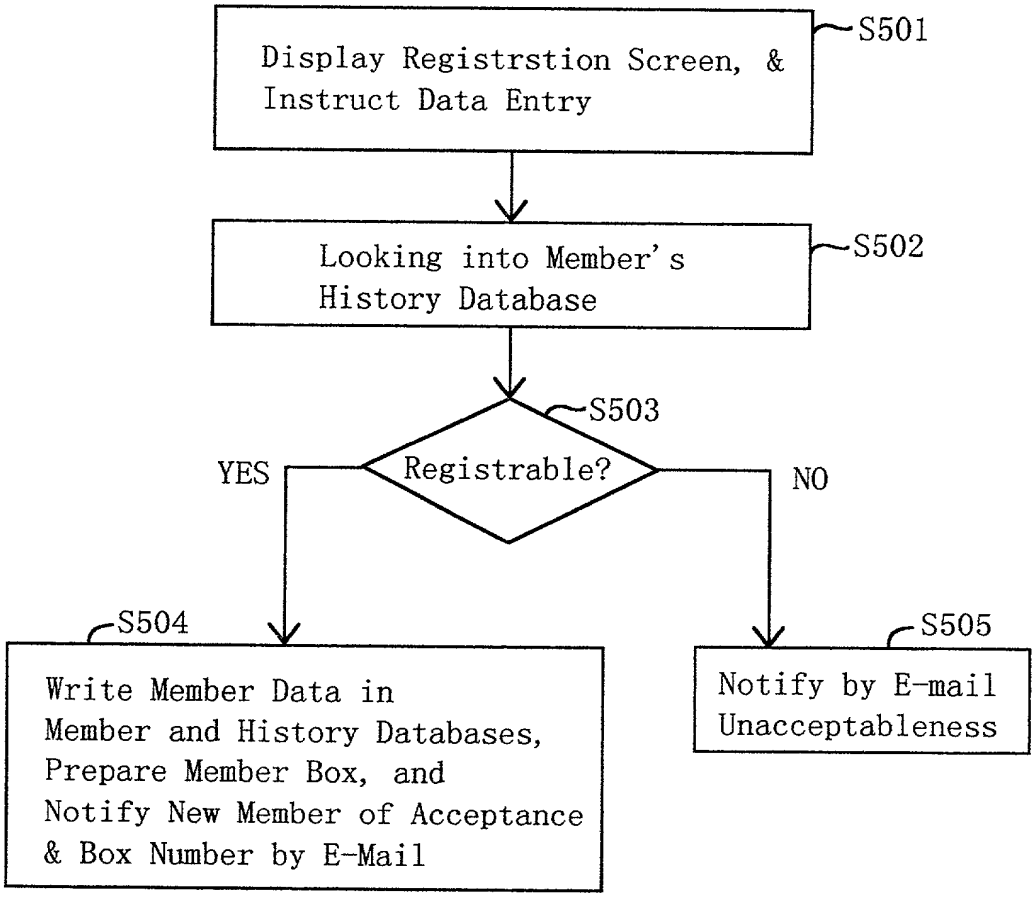
Display Registrstion Screen, & Instruct Data Entry
S501
Looking into Member's History Database
S502
S503
Registrable?
YES
NO
S504
Write Member Data in Member and History Databases, Prepare Member Box, and Notify New Member of Acceptance & Box Number by E-Mail
S505
Notify by E-mail Unacceptableness

FIG. 5

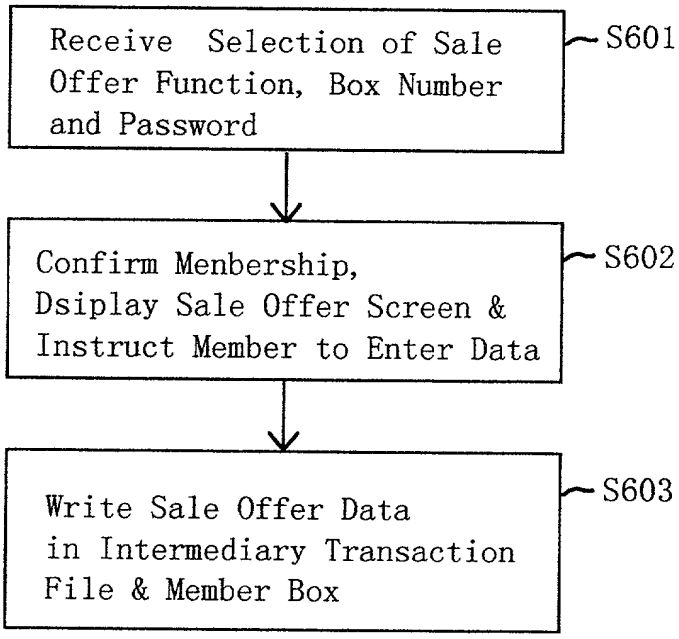
Receive Selection of Sale Offer Function, Box Number and Password
S601
Confirm Menbership, Dsiplay Sale Offer Screen & Instruct Member to Enter Data
S602
Write Sale Offer Data in Intermediary Transaction File & Member Box
S603

FIG. 6A

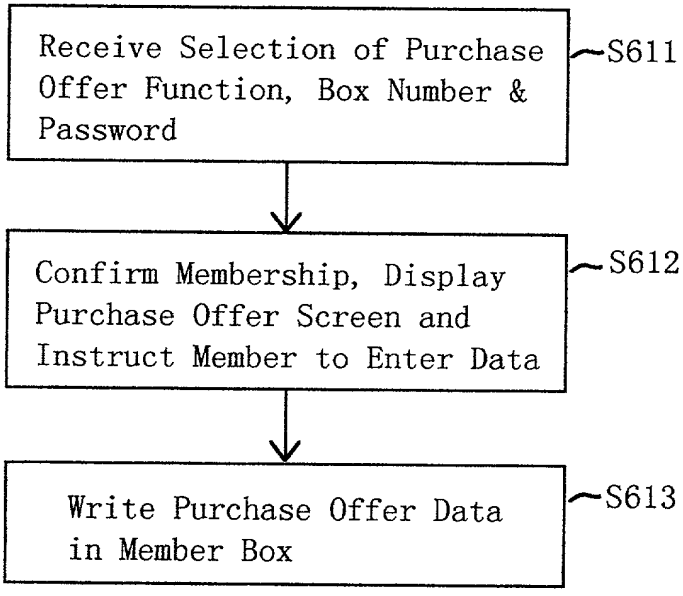
Receive Selection of Purchase Offer Function, Box Number & Password
S611
Confirm Membership, Display Purchase Offer Screen and Instruct Member to Enter Data
S612
Write Purchase Offer Data in Member Box
S613

FIG. 6B

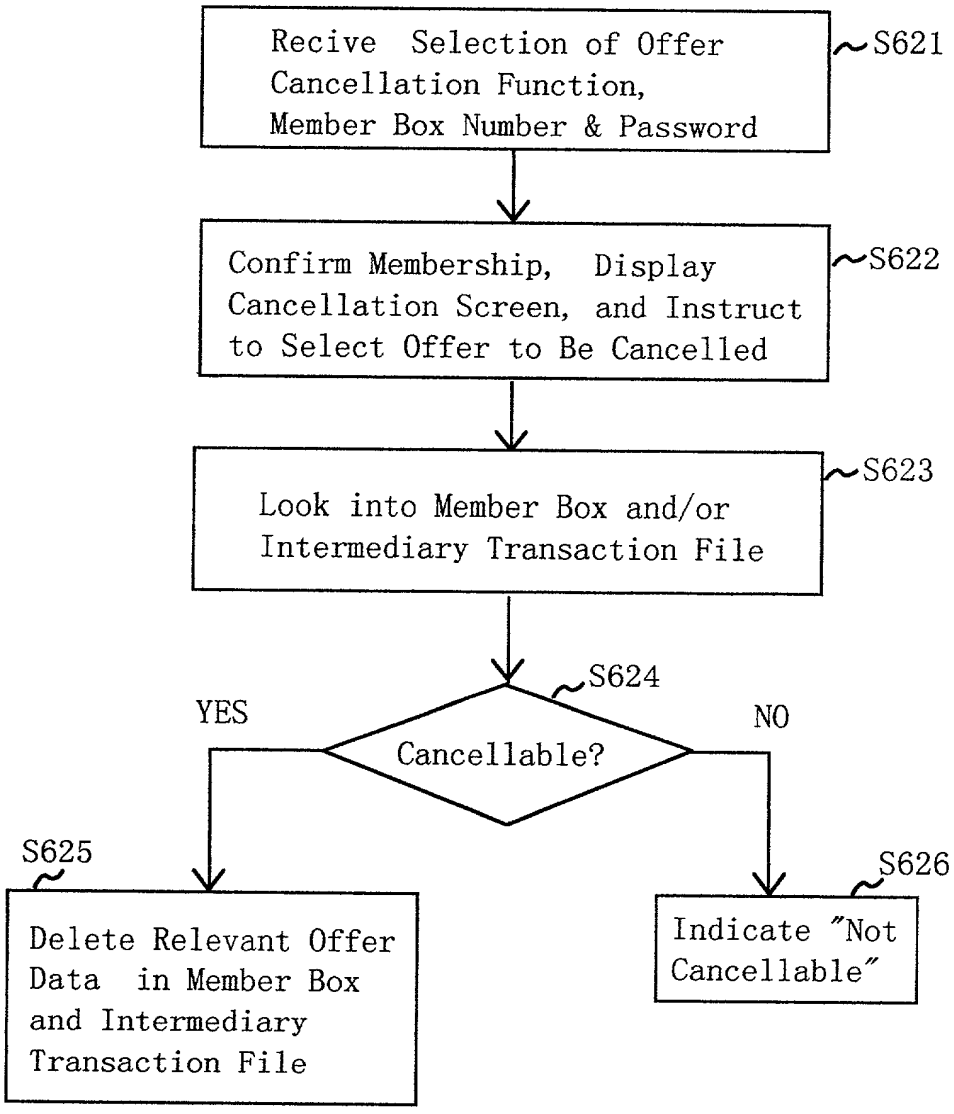
Recive Selection of Offer Cancellation Function, Member Box Number & Password
S621
Confirm Membership, Display Cancellation Screen, and Instruct to Select Offer to Be Cancelled
S622
Look into Member Box and/or Intermediary Transaction File
S623
S624
YES
Cancellable?
NO
S625
Delete Relevant Offer Data in Member Box and Intermediary Transaction File
S626
Indicate "Not Cancellable"

FIG. 6C

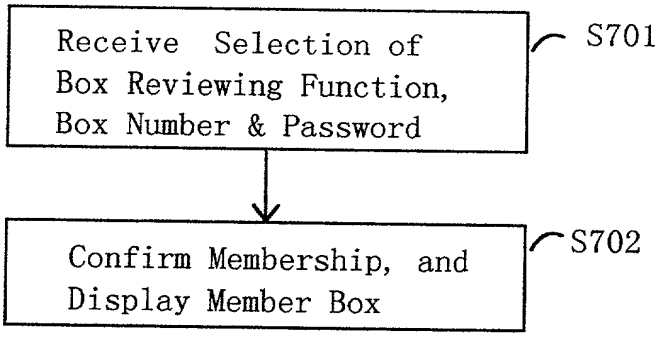

FIG. 7A

750

Member Box No. : 00999 Member Name: Ken Satow

Sale Offer List (1 Offer)
Sale Offer No. : 000111
Sale Offer Date: Oct. 10, 2000, 10:10a. m.
Purchase/Sale: Sale
Sale Status: There Is a Candidate Buyer
Commodity Category: Cellular Phone
Commodity Name: XXXX
Time Limit: Dec. 10, 2000
Lowest Selling Price SPmin: $30
Description of Commodity: Category
Age: 1 Year 1 Month
Model: XXX
Determined Purchase Offer No. : -
Determined Selling Price SPdet: -

(Digital Photo)

Purchase Offer List (3 Offers)
Purchase Offer No. : 000900

FIG. 7B

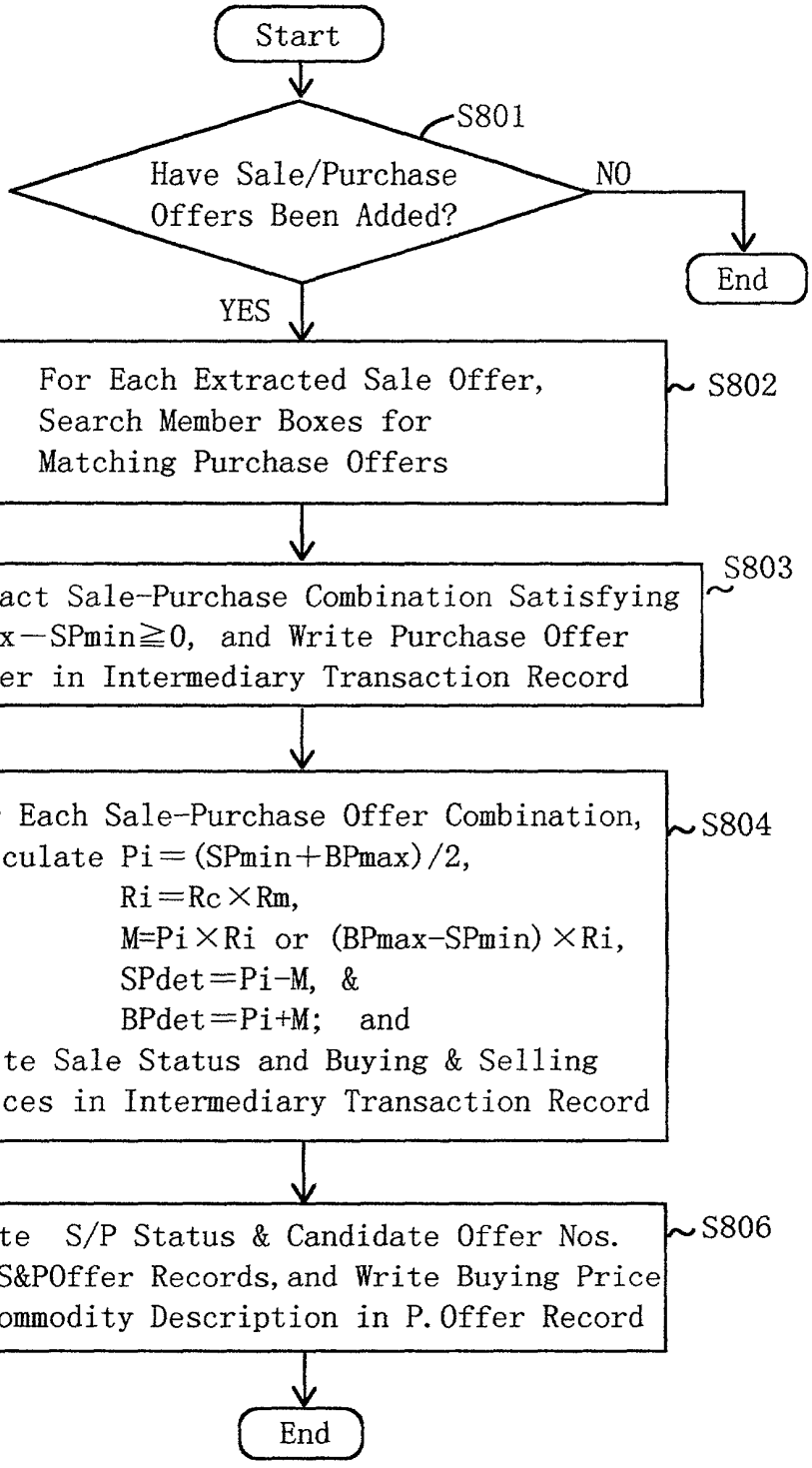
Start
S801
Have Sale/Purchase Offers Been Added?
NO
End
YES
For Each Extracted Sale Offer, Search Member Boxes for Matching Purchase Offers
S802
Extract Sale-Purchase Combination Satisfying BPmax−SPmin≧0, and Write Purchase Offer Number in Intermediary Transaction Record
S803
For Each Sale-Purchase Offer Combination, Calculate Pi=(SPmin+BPmax)/2, Ri=Rc×Rm, M=Pi×Ri or (BPmax-SPmin)×Ri, SPdet=Pi-M, & BPdet=Pi+M; and Write Sale Status and Buying & Selling Prices in Intermediary Transaction Record
S804
Write S/P Status & Candidate Offer Nos. in S&POffer Records, and Write Buying Price & Commodity Description in P. Offer Record
S806
End

FIG. 8

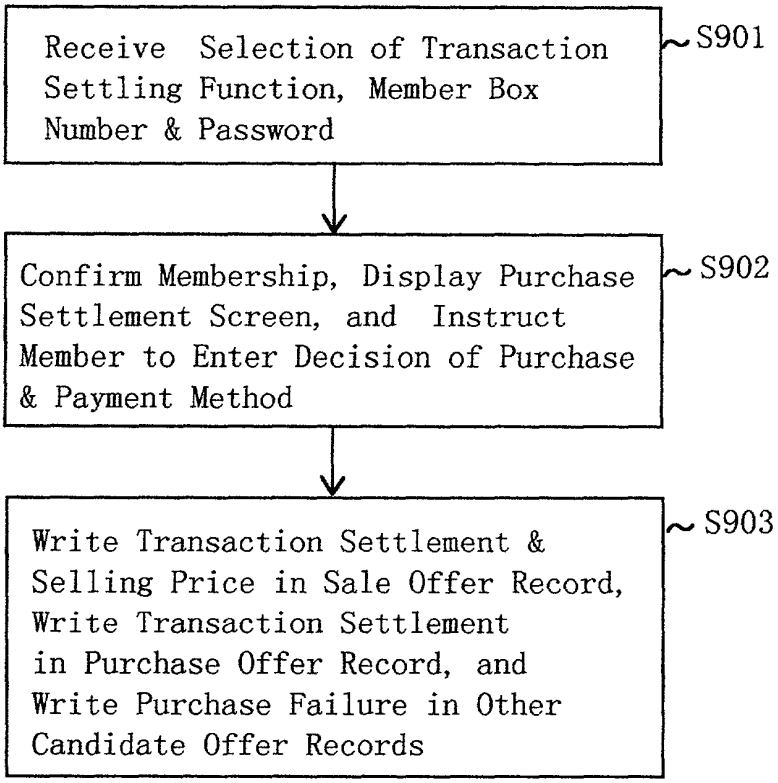
Receive Selection of Transaction Settling Function, Member Box Number & Password
S901
Confirm Membership, Display Purchase Settlement Screen, and Instruct Member to Enter Decision of Purchase & Payment Method
S902
Write Transaction Settlement & Selling Price in Sale Offer Record, Write Transaction Settlement in Purchase Offer Record, and Write Purchase Failure in Other Candidate Offer Records
S903

FIG. 9

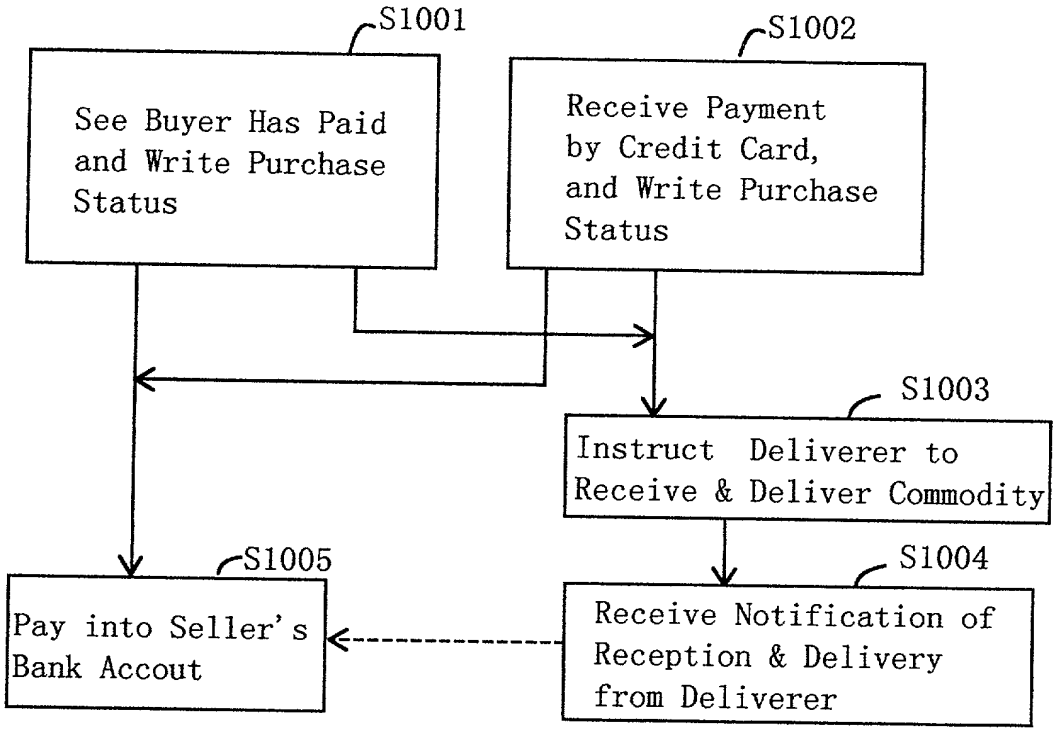
S1001
See Buyer Has Paid and Write Purchase Status
S1002
Receive Payment by Credit Card, and Write Purchase Status
S1003
Instruct Deliverer to Receive & Deliver Commodity
S1004
Receive Notification of Reception & Delivery from Deliverer
S1005
Pay into Seller's Bank Accout

FIG. 10